

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---------------------------|------------------|---------|---------------------|
| L1 | 1 | quantizat\$4 same (reciprocal or inverse) same spatial frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:04 |
| L2 | 165 | quantizat\$4 same (reciprocal or inverse) same spatial frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:04 |
| L3 | 8 | quantizat\$4 near3 (reciprocal or inverse) near3 spatial frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:04 |
| L4 | 84 | quantizat\$4 near3 (reciprocal or inverse) near3 high frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:07 |
| L5 | 0 | quantizat\$4 near3 (reciprocal or inverse) near3 high frequency same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:08 |
| L6 | 7 | quantizat\$4 near3 (reciprocal or inverse) same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:08 |
| L7 | 1 | quantizat\$4 matrix same (reciprocal or inverse) same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:11 |
| L8 | 1 | quantizat\$4 matrix same (reciprocal or inverse) same (highpass or high pass or high-pass) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:11 |
| L9 | 0 | quantizat\$4 near3 focus\$ same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:12 |
| L10 | 0 | quantizat\$4 near3 focus\$4 same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:12 |
| L11 | 0 | quantizat\$4 near5 focus\$4 same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:12 |
| L12 | 0 | quantizat\$4 near5 focus\$4 same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:12 |
| L13 | 495 | quantizat\$4 same (highpass or high pass or high-pass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:12 |

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|-----|-------|---|------------------------|-----|----|------------------|
| L14 | 0 | quantizat\$4 same (highpass or high pass or high-pass) filter same(Laplacian adj3 Gaussian) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:13 |
| L15 | 3 | quantizat\$4 same (highpass or high pass or high-pass) filter and (Laplacian adj3 Gaussian) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:13 |
| L16 | 435 | Gaussian adj2 blur | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:16 |
| L17 | 0 | Gaussian adj2 blur near5 laplacian | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:16 |
| L18 | 0 | Gaussian adj2 blur near5 laplacian | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:17 |
| L19 | 4 | Gaussian near3 blur near5 laplacian | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:17 |
| L20 | 1868 | (quantiz\$5 or quantis\$5) matrix | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:19 |
| L21 | 33 | (quantiz\$5 or quantis\$5) matrix near5 (high adj5 frequency) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:19 |
| L22 | 4 | ("5461682" "6025878" "6092920" "6249614").PN. OR ("6928113").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:31 |
| L23 | 13 | ("20020041716" "20040008897" "20040061801" "5065246" "5105278" "5357281" "5598484" "6289127" "6298166" "6347118" "6512791" "7103228" "7224397").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:45 |
| L24 | 33 | ("4541010" "4544953" "4969045").PN. OR ("5065246").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:48 |
| L25 | 424 | 382/255.ccls. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:48 |
| L26 | 100 | 382/255.ccls. and (automatic focus or auto focus or autofocus) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:49 |
| L27 | 3 | pizeoelectric actuator | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:51 |
| L28 | 16433 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:52 |
| L29 | 286 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator same camera and lens | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:52 |

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| L30 | 14 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator near3 camera near3 lens | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:52 |
| L31 | 51 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator same camera and lens and @pd<="20040304" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:55 |
| L32 | 25 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator same camera same lens and @pd<="20040304" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:57 |
| L33 | 2 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator same camera same lens same advantage and @pd<="20040304" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:57 |
| L34 | 25 | (piezoelectric or piezo electric or piezo-electric or piezo) actuator same camera same lens and @pd<="20040304" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 14:59 |
| L35 | 802 | Gaussian near5 laplacian | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:22 |
| L36 | 2 | Gaussian near5 laplacian near5 highpass | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:22 |
| L37 | 17 | Gaussian near5 laplacian near5 (highpass or high pass or high-pass) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:23 |
| L38 | 3102 | Gaussian filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:28 |
| L39 | 120 | laplacian adj3 Gaussian filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:29 |
| L40 | 30 | laplacian adj3 Gaussian filter and ((highpass or high pass or high-pass)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:29 |
| L41 | 6 | laplacian adj3 Gaussian filter same ((highpass or high pass or high-pass)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:29 |
| L42 | 4 | laplacian near3 Gaussian filter same ((highpass or high pass or high-pass)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:31 |
| L43 | 123 | laplacian near3 Gaussian filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:34 |
| L44 | 120 | laplacian adj3 Gaussian filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:34 |

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| L45 | 11 | ((laplacian near3 Gaussian filter) or Log filter) same ((highpass or high pass or high-pass)) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/16 15:35 |
| S1 | 36 | ((ANTHONY) near2 (HOOLEY)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 15:12 |
| S2 | 1114 | ((DAVID) near2 (RICHARDS)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 15:12 |
| S3 | 533 | ((JAMES) near2 (ALLAN)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 15:12 |
| S4 | 3 | ((ROBERT) near2 (LEEDHAM)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 15:12 |
| S5 | 41 | ((MARK) near2 (SHEPHERD)).INV. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 15:12 |
| S6 | 1701 | S1 or S2 or S3 or S4 or S5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:13 |
| S7 | 11 | S6 and focus\$3 near3 control \$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:14 |
| S8 | 990 | 348/345.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:21 |
| S9 | 3 | 348/345.ccls. and JPEG encoder | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:21 |
| S10 | 6 | JPEG encoder and (color or clour)(process\$4) and (discrete cosine trnasform\$4 or DCT) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:23 |
| S11 | 767 | high frequency component near3 focus | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:29 |

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| S12 | 112 | S11 and S8 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:29 |
| S13 | 21 | S12 and JPEG | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:29 |
| S14 | 4 | laplacian near3 gaussian filter same (high-pass or high pass or highpass)filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:35 |
| S15 | 4 | (laplacian near3 gaussian filter) same (high-pass or high pass or highpass)filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:35 |
| S16 | 0 | control near3 focusing same endoder | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:40 |
| S17 | 272 | control near3 focusing same encoder | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:40 |
| S18 | 31 | control near3 focusing near5 encoder | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:40 |
| S19 | 34 | control near3 focusing near5 encod\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:40 |
| S20 | 0 | control near3 focusing near5 low and high frequecny components | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:42 |

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| S21 | 31 | control near3 focusing near5 low and high frequency components | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:43 |
| S22 | 4 | control near3 focusing near5 (low and high frequency components) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:43 |
| S23 | 4 | control near3 focusing near5 ((high and low) near3 frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:44 |
| S24 | 18 | (control\$4 near3 focus\$4) near5 ((high and low) near3 frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:44 |
| S25 | 0 | (endod\$4) near5 ((high and low) near3 frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:47 |
| S26 | 882 | (encod\$4) near5 ((high and low) near3 frequency) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:47 |
| S27 | 8 | (encod\$4) near5 ((high and low) near3 frequency) and (control\$4 near3 focus\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:47 |
| S28 | 37 | extract\$3 near3 (focus) (value or data or information) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:51 |
| S29 | 67 | extract\$3 near3 (focus) (value or data or information) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:51 |

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| S30 | 13 | extract\$3 near3 (focus (value or data or information) and high near3 frequency | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:51 |
| S31 | 28 | ("20020041716" "20040008897" "20040061801" "5065246" "5105278" "5357281" "5598484" "6289127" "6298166" "6347118" "6512791" "7103228" "7224397").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/10/14 15:59 |
| S32 | 12 | ("4541012" "4975726"). PN. OR ("5105278").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 16:35 |
| S33 | 13 | ("20020041716" "20040008897" "20040061801" "5065246" "5105278" "5357281" "5598484" "6289127" "6298166" "6347118" "6512791" "7103228" "7224397").PN. OR ("7502523").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/14 16:38 |
| S34 | 1 | ("2002/0041716").URPN. | USPAT | ADJ | ON | 2009/10/14 16:38 |
| S35 | 0 | direct component near3 image near5 low | USPAT | ADJ | ON | 2009/10/14 17:04 |
| S36 | 6 | direct near3 component near3 image near5 low | USPAT | ADJ | ON | 2009/10/14 17:04 |
| S37 | 11 | "5105278" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:02 |
| S38 | 0 | quantizat\$4 near6 reciprocal near6 spatial frequency near6 (high-pass or high pass or highpass) "filter." | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:06 |
| S39 | 0 | quantizat\$4 near6 reciprocal near6 spatial frequency near6 (high-pass or high pass or highpass)filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:06 |
| S40 | 1 | quantizat\$4 same reciprocal same spatial frequency same (high-pass or high pass or highpass)filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:06 |
| S41 | 1 | quantizat\$4 same reciprocal same spatial frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:07 |
| S42 | 1 | quantisat\$4 same reciprocal same spatial frequency | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:10 |

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| S43 | 1 | quantizat\$4 same spatial frequency same (high-pass or high pass or highpass) filter | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:10 |
| S44 | 0 | "5105278" and piezoelectric | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:12 |
| S45 | 0 | "5105278" and piezo-electric | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:12 |
| S46 | 0 | "5105278" and piezo\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:13 |
| S47 | 3 | lens actuator near3 piezo\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:13 |
| S48 | 9 | lens (actuator or driving) near3 piezo\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:14 |
| S49 | 17 | lens (actuator or driving) near5 piezo\$4 | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/10/15 15:14 |

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